

Appendix A

Alignment of SEQ ID NO: 46759 and Related Nucleic Acids

ATGTAGGCAATTGCGTGCCCTAGAACATTGCTAAATGTGCCCTGGGTTTCCTGCCTTCATGCAAATATTCTACCTCCCCGGCCTGGTGCA
ATGTAGGCAATTGCGTGCCCTAGAACATTGCTAAATGTGCCCTGGGTTTCCTGCCTTCAT (SEQ ID NO: 1916)
TAGCCAATTGCGTGCCCTAGAACAT (SEQ ID NO: 4641)

AAATGCTGCCTCAGAATACTAACAGCTAATCCAAGCTAACATTCTATCAGTAACGGGCAGAAAAGTATAAGGACCGCGAGTTTGG
CCCTCCGCGGTGTCGGTGGTCCTCACACGTGCCCTCCCCCGGGCGATGGCTGAGGCCCGGAATATGCAAGTGACCTTTCTAACCA
GTAGGGGCCCTCCACCTAGGTGCTTTGTAAATCTTTAGTGGGAAGTACTGGGAGTGCTGTGCCTCGGGTACCCCTATCCTATAGGTCTTA
CCGAGAGCTCCTTGTCTTGATAATCCGTGAACACACACCACCTAAGAACAAGGCATTGTAAACCTTTGGTGGAACCTAGTGTTAGTGT
TGTGCTGTAATAAGTGTCACGCGCACCCTAGTCACCAAGGTGTACCGGAGGCTACTTGCCTCAGTGCCACTTTTACCTTCTCAAATC
TATACGGGGGGGGGGGGGCTCTGTAACATTGGTGGGACCTGATGCTGCTGGTGTGCTGTAATAAGTGCCTAGCACATCACGTAGGC
ATACGGGGGGGGGGGGCGXXXXXXXXXXXXXXXXXXXX (Okamoto)
GGGGGGGGGGGGCTCTXXXXXXXXXXXXXXXXXXXX (Homburger)
XTGCTGGTGTGCTGTAAXX (Dean)

ACCAGGTGTACCAGGGCTACTTGCCTCGGCATCTCCTCACCGGAGAAGGGGTTAACAAACCGTGGGGGTCTTAGTGGAAGTGACGT
(SEQ ID NO: 1917) CCCGTGGGGGTCTTAGTGGAAGTGACGT

GCTGTGAATACAGGTCCATAGCACCGCTATCCACTATGTCTCGCCCGGG
GCTGTGAATACAGGTCCATAGCACCGCTATCCACTATGTCTCGCCCGGG (SEQ ID NO: 1917 continued)
TAGCACCGCTATCCACTATGTCTC (SEQ ID NO: 4642)

Bold = SEQ ID NO: 46759

underline = nucleotides of alleged prior art sequences identical to SEQ ID NO: 46759

X = unspecified nucleotides of nucleic acid